



Soudaseal 2K

Product description

Soudaseal 2K is a fast curing high quality two component hybrid polymer based adhesive. For use in elastic bonding applications where fast curing is required or for those applications where the bond design does not allow the normal penetration of atmospheric moisture.

Soudaseal 2K cures by means of a chemical reaction between A- and B-component and therefore is not dependent on (atmospheric) moisture.

Properties

- Fast strength build-up
- Fast curing
- Good mechanical characteristics
- Permanently elastic after curing
- Cures without the presence of atmospheric moisture
- For in- and outdoor use



Applications

- Soudaseal 2K is suitable for several industrial and building applications like elastic bonding in car body work, caravan, bus and container industry.
- Elastic bonding in construction and building applications
- Elastic bonding applications where fast curing and strength build-up is required.
- Full surface bonding of large areas between non-porous substrates

Technical data

Base	SMX Hybrid Polymer
Curing system	Chemical curing
Elasticity modulus	ca. 1.30 MPa
Elongation at break	ca. 350 %
Component A	-
Component A colour	Grey
Component A consistency	Paste
Component A density	ca. 1.10 g/ml
Component B	-
Component B colour	White
Component B consistency	Paste
Component B density	ca. 1.70 g/ml
Mixture	-
Mixing ratio by volume	A:B = 1:1
Mixture colour	Light grey
Mixture consistency	Paste
Mixture density	ca. 1.40 g/ml

Soudaseal 2K

Potlife	ca. 5 minutes
Open time	ca. 10 minutes
Hardness	ca. 40 ± 5 Shore A
Can be loaded after	After 1 hours
Shear strength	> 1.30 MPa, substrate AlMgSi1, thickness 0.9 mm, shear velocity 10 mm/min
Tensile strength	ca. 2.20 MPa
Application temperature	+5°C → +35°C
Temperature resistance	-40°C → +90°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding or sealing.
- Substrate types
Soudaseal 2K has a good adhesion to following substrates: aluminium, electrolytic galvanized steel, anodized aluminium, flame galvanised steel, stainless steel, polystyrene, polycarbonate, fiberglass reinforced epoxy, polyester, brick, ceramic. Soudaseal 2K has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass. Bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Soudaseal 2K is not recommended in these applications. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
Screw static mixer onto cartridge and dispense the first 10 cm of the product to waste (on piece of cardboard) until an even colour (light grey) is achieved and the product is well mixed.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Universal cartridge of 250 ml that fits every standard caulking gun or pneumatic gun with plunger. Soudaseal 2K has to be applied with the supplied static mixer for optimum mixing of both components.
Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Once opened the product has only a limited shelf life.

Soudaseal 2K

Environmental clauses

- Leed regulation: Soudaseal 2K conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Remarks

- Soudaseal 2K may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Soudaseal 2K can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate , etc., may differ from manufacturer to manufacturer, we recommend a preliminary compatibility test.
- Soudaseal 2K can not be used as a glazing sealant.
- Do not use on natural stones like marble, granite,...(staining).
- A total absence of UV can cause a color change of the sealant.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.

This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. It is general in nature and does not constitute any liability. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.